ENVIRONMENTAL MANAGEMENT PROGRAM
REFUSE DISPOSAL DIVISION

Surface Maintenance (NPDES)
FY-03

Process Map Number(s): SM-01

Background / Purpose: The Local Enforcement Agency and Regional Water Quality Control Board regulate activity at our landfills through enforcement of the Clean Water Act. By developing Best Management Practices and implementing additional controls we should be able to eliminate NOVs and potential fines throughout the year.

Objective: Resource Conservation / Continuous Improvement

Related Significant Aspects: Improper Drainage, Water Use

Target: Improve upon NPDES Best Management Practices (BMP) program

Target Completion Date(s): Additional controls installed by October 31, 2002

Action Plan: Keep sedimentation basin pumped out between storm events (10 weeks), install BMPs to include: mulching slopes (52,400 yds^3), silt fencing (where necessary), erosion control mats (where necessary) and straw wattles (where necessary), apply tackifier to selected slopes.

Responsible Person(s): Landfill Engineer, PO II, Associate Engineer (NPDES)

Resources Required: Water pump, fuel for equipment and to pump out sedimentation basin, mulch, tackifier, silt fencing, erosion control mats, straw wattles and heavy equipment.

Environmental Performance Indicator(s): Number of Notices of Violation issued per year, number of fines per year, number of additional BMPs instituted at landfill sites.

Comments (including other expected benefits or cost savings): Minimize potential for fines from the regulator (Regional Water Quality Control Board –San Diego or L.E.A.)

Baseline Data: Mulch totals averaged 20,000 to 40,000 yds^3/year, silt fencing averaged less than 100 lineal feet/year, and there was no pump down of the sedimentation basin.

Approved by:	Mike Thompson	Project Officer II (Inactive Landfills)
	Rory Clay	Landfill Engineer
	Mark zu Hone	Environmental Management Representative

See back for EMP Schedule

EMP Schedule						
Step	**Action Items**	**Responsibilities**	**Role**	**Schedule**	**Resources Required**	**Date Complete**
1	Design and Construct Chemical Feed System for Basin	Landfill Engineer	Lead	6/30/03	$250,000	
2	Pump Down Basin between Storm Events	Landfill Engineer Landfill Ops	Lead Support	After each storm event	Pump, Fuel and Labor	N/A
3	Remove Sediment from Basin	Landfill Engineer Landfill Ops	Lead Support	10/31/02	Loader, Dump Truck, Scrapper, Dozer, Labor, Fuel	7/31/02
4	Apply additional Mulch to slopes	Landfill Engineer Landfill Ops	Lead Support	10/31/02	Mulch, Scrapper, Dozer, Labor, Fuel	10/31/02
5	Apply "Tackifier" to selected slopes	Landfill Engineer Landfill Ops	Lead Support	10/31/02	Tackifier, Water Truck	Nov/Dec
6	Add Straw Wattles to base of slopes where necessary	Landfill Engineer Landfill Ops	Lead Support	10/31/02	Straw Wattles and Labor	N/A this season
7	Install Silt Fencing where necessary	Landfill Engineer Landfill Ops	Lead Support	10/31/02	Silt Fencing and Labor	10/31/02
8	Install Erosion Control Mats where necessary	Landfill Engineer Landfill Ops	Lead Support	10/31/02	Erosion Control Mats, Staples, Labor	N/A this season

Comments (report performance/milestones):

A pilot test of the water clarification system was completed in July 02. The one year water basin study conducted by our consultant, PBS&J, is now complete. The study and its recommendations are currently being reviewed by the Regional Water Quality Control Board (RWQCB). After the RWQCB agrees on a design storm and approves the polymer, we will have a clarifier system designed and subsequently built.

Total mulch applied to slopes to date (FY03): **23,356 yds^3**
Total silt fencing applied to date (FY03): **600 Lft**
Total erosion control matting (yds^2) to date (FY03): **Not required this season**
Total straw wattles applied (ft) to date (FY03): **Not required this season**
Total tackifier applied to date (FY03): **Last seasons application is holding. Additional applications will be dependant on weather conditions.**
Gallons pumped from desilting pond (FY03): **1,270,259 gal**